

Appl. No. 10/714,903
Amendment dated: September 7, 2004
Reply to OA of: June 8, 2004

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-11(canceled).

12(new). A modified polyester filament which is formed by spinning a polyester resin composition comprising more than 85 mol% of ethylene terephthalate, as the main component repeating unit, and component A which is an organic sulphonate having a formula RSO_3M ,

wherein R is a C_{3-30} alkyl group, an aromatic group, or an alkyl aromatic group having 7-40 carbon atoms;

M is an alkali metal or an alkali earth metal, and component B is a polyalkylene glycol having a molecular weight of from 10,000-30,000;

which satisfies the following three conditions:

- 1) the content of said component A, RSO_3M , is from 0.4 weight% to 5 weight%;
- 2) the content of said component B, polyalkylene glycol, is from 0.4 weight% to 5 weight%;
- 3) said polyester filament obtained by spinning is subjected to alkali treatment to reduce the weight in an amount of 5-45% with 60~130°C alkali solution of concentration 0.2 to 8.0 weight%, dyeing to get polyester filament having 0.1~0.001 d.p.f. (denier per filament) ultrafine fluffs thereon.

13(new). The modified polyester filament according to claim 12, wherein component A is sodium alkyl (C_{12} to C_{15}) sulfonate.

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14(new). The modified polyester filament according to claim 12, wherein component A and component B are added in the stage of manufacturing polyester.

15(new). A hetero-shrinkage conjugate yarn, which is formed by combining the filament of claim 12 with filament having high boiling water shrinkage greater than 8% and greater than that of the filament of claim 12, drawing and twisting.

16(new). The hetero-shrinkage conjugate yarn according to claim 14, wherein the hetero-shrinkage conjugate yarn is hetero-shrinkage conjugate textured yarn.

17(new). The hetero-shrinkage conjugate yarn according to claim 14, wherein the hetero-shrinkage conjugate yarn is hetero-shrinkage conjugate filament.

18(new). A fabric woven by using the modified polyester filament according to claim 12.

19(new). A fabric woven by using the hetero-shrinkage conjugate yarn according to claim 14.

20(new). A fabric woven by using the hetero-shrinkage conjugate yarn according to claim 16.

21(new). A fabric woven by using the hetero-shrinkage conjugate yarn according to claim 17.